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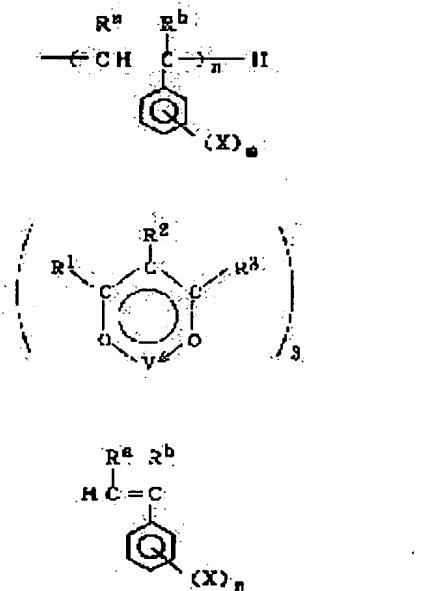
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## (54) THERMOPLASTIC RESIN COMPOSITION



### (57) Abstract:

**PURPOSE:** To obtain a thermoplastic resin composition, containing a polyamide, a polyolefin and a specific compatibilizing agent and excellent in mechanical, thermal, surface and environmental characteristics due to the excellence in compatibility of the polyamide with the polyolefin.

**CONSTITUTION:** This thermoplastic resin composition contains (A) 0.1-99wt.% polyamide (preferably nylon 6 or nylon 66), (B) 0.1-99wt.% polyolefin (preferably ethylene homopolymer, a copolymer of ethylene and propylene, etc.) and (C) 0.01-99wt.% terminal-modified polypropylene having a terminal structure of formula I [Ra and Rb are each H or methyl; X is a substituent group without containing active hydrogen; (m) is 0-5; (n) is an average value and 0.1-500]. Furthermore, the

component (C) is preferably obtained by carrying out the living polymerization of propylene in the presence of a catalyst comprising a vanadium compound of formula II (R1 to R3 are each H or a 1-8C hydrocarbon; at least one of R1 to R3 is H and all should not be H) and an organoaluminum compound, providing a living polypropylene and then reacting the resultant living polypropylene with a compound of formula III.

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